

FIG. 1

EMISSION SPECTRA OF NAFION THIN FILM CONTAINING
DIIC(5) BEFORE AND AFTER EXPOSURE TO DMMP VAPOR

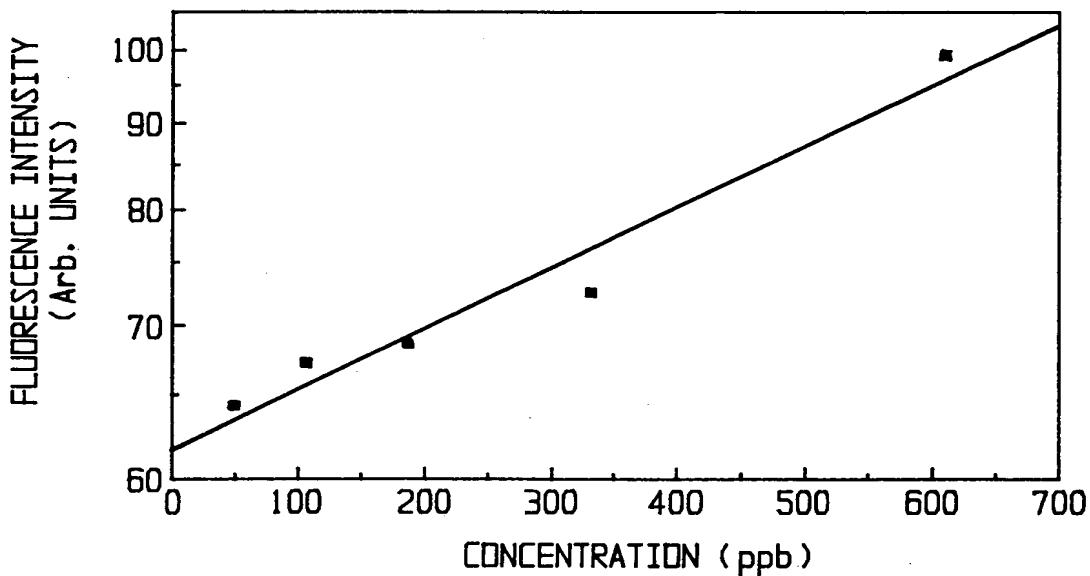


FIG. 2

SENSITIVITY AND PROPORTIONALITY OF
NAFION/DIIC(5) PROBE TO DMMP

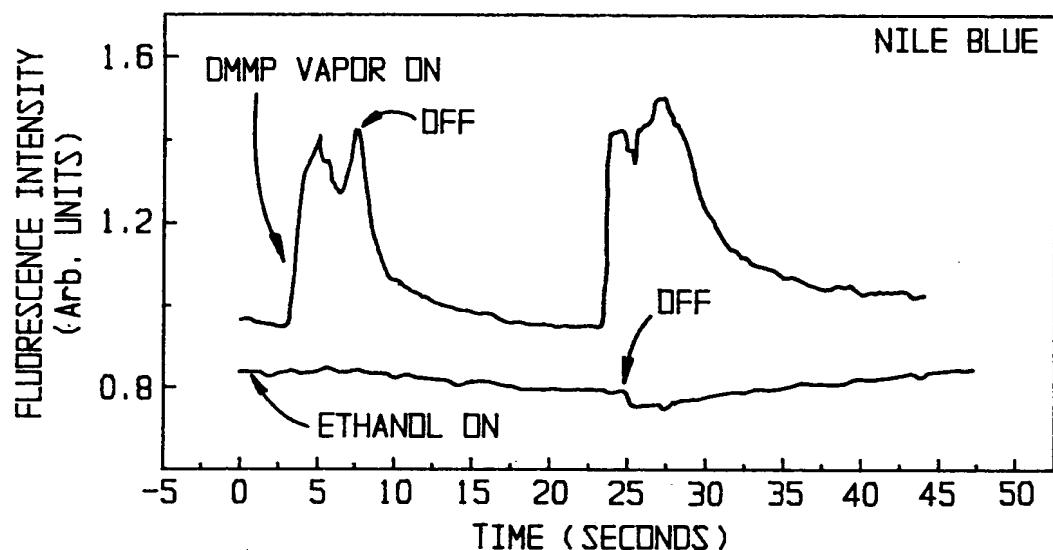


FIG. 3
RESPONSE OF NILE BLUE DOPED
POLYETHYLENE MALEATE FILM TO DMMP

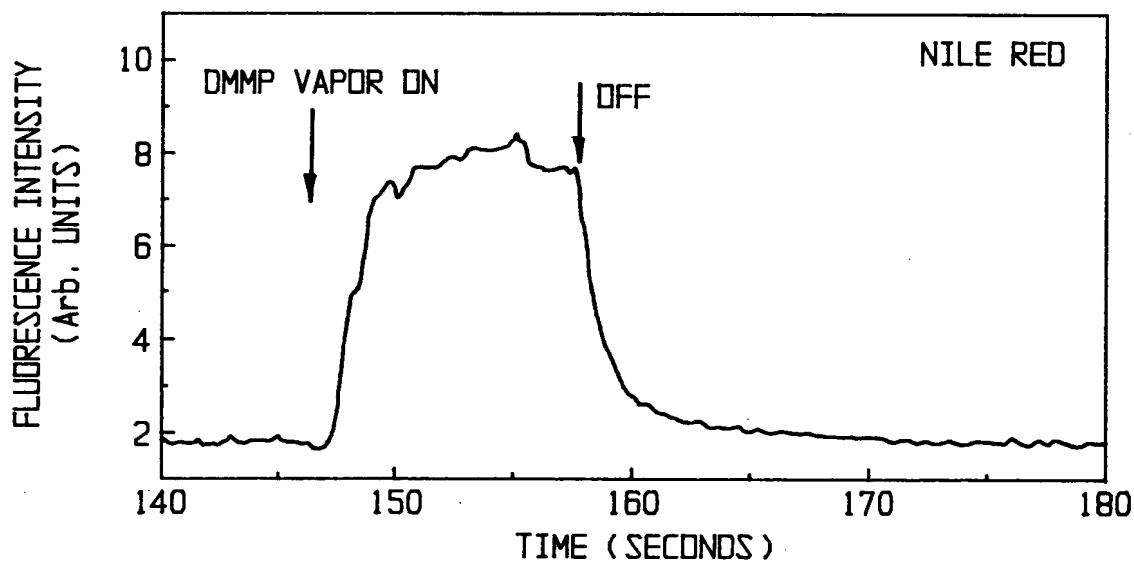
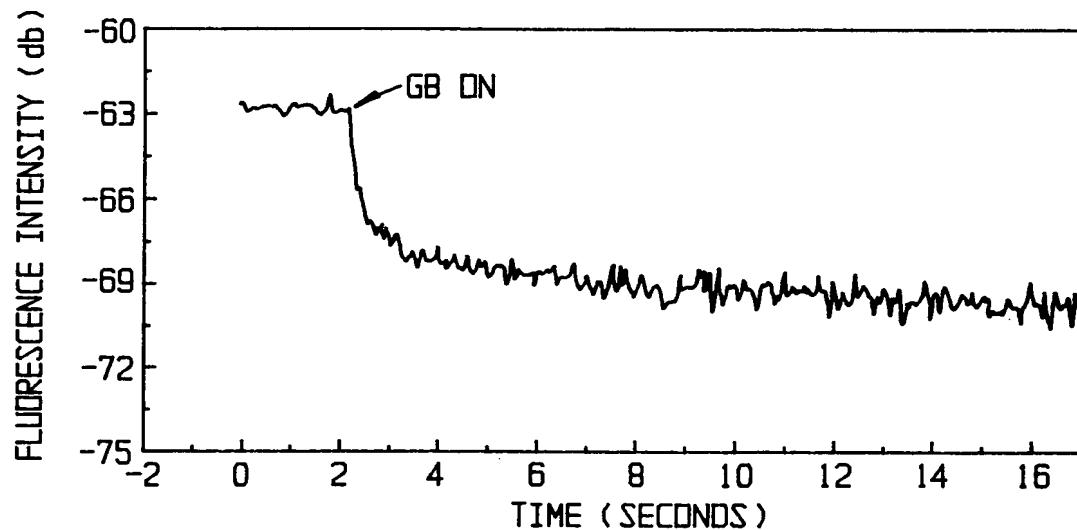
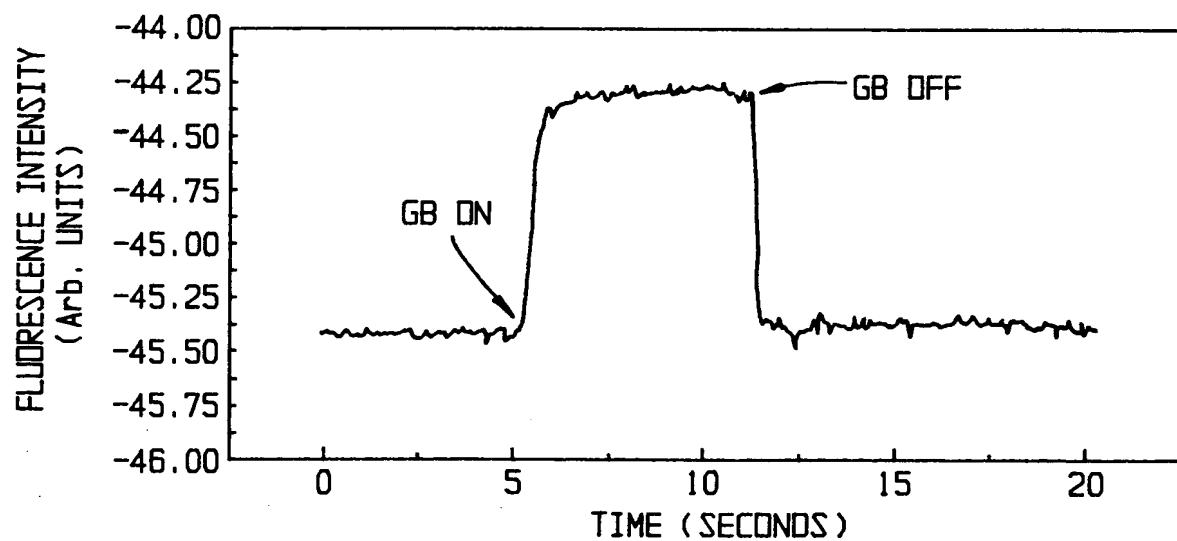


FIG. 4
RESPONSE OF NILE RED DOPED
POLYETHYLENE MALEATE FILM TO DMMP

**FIG. 5**

CHANGE OF FLUORESCENCE OF DIIIC(5) IN NAFION
UPON EXPOSURE TO SARIN AT 0.0099mg/n3

**FIG. 6**

CHANGE OF FLUORESCENCE INTENSITY WHEN
THE FILM WAS EXPOSED TO SARIN

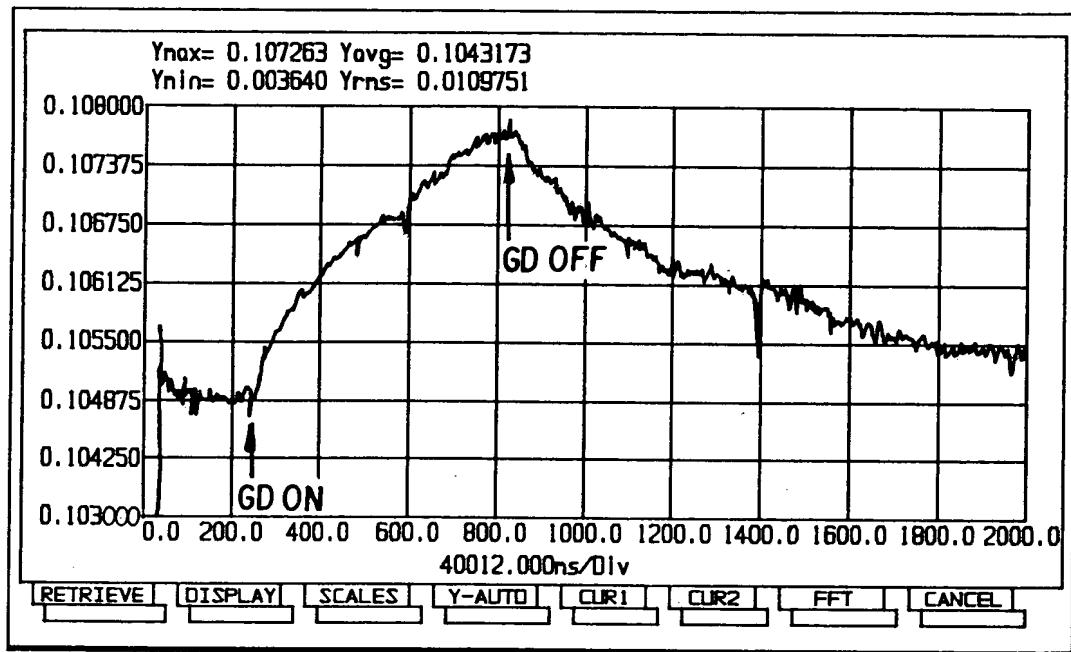


FIG. 7 RESPONSE OF AN OXAZINE 170/FLUOROPOLYOL FILM TO GD AT 520 ppb

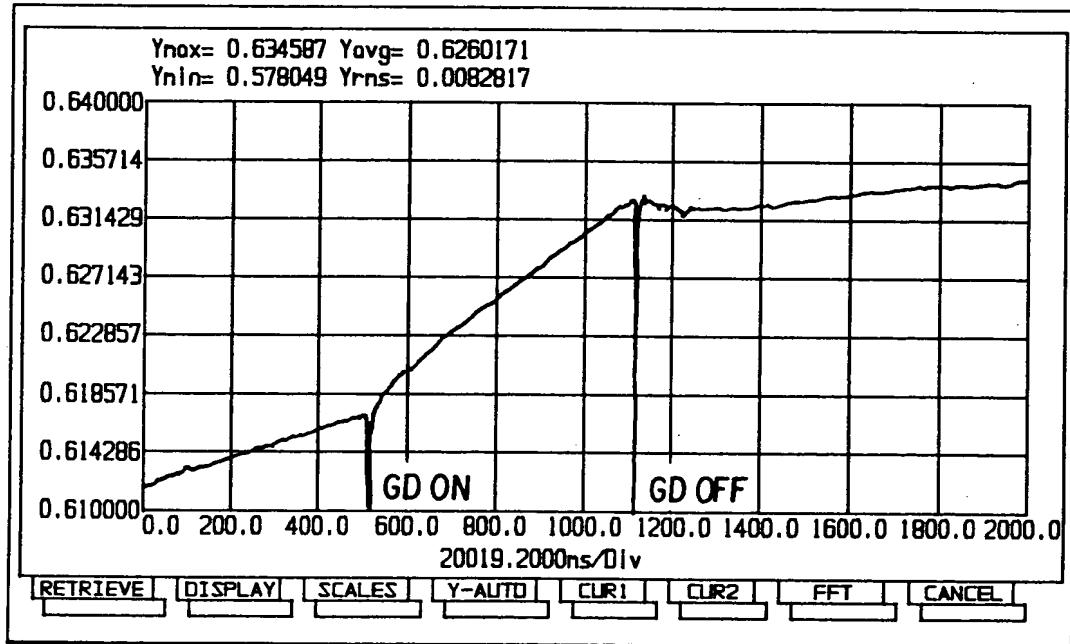


FIG. 8 RESPONSE OF AN OXAZINE 170/FLUOROPOLYOL FILM TO GD AT 41 ppb

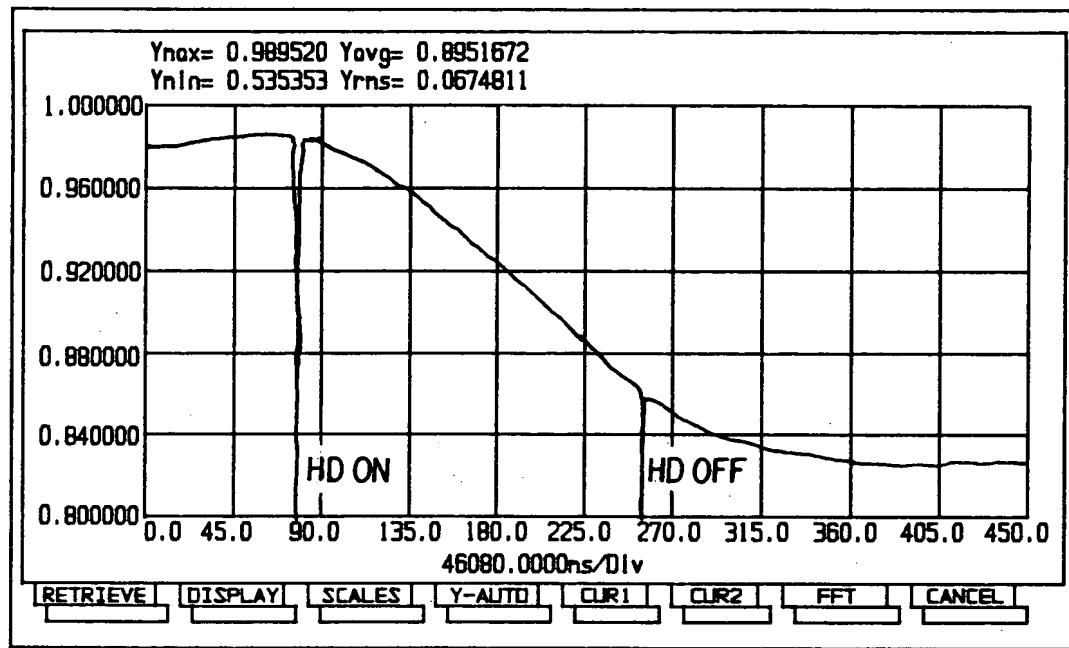


FIG. 9A RESPONSE OF NILE BLUE/PECH FILM TO HD
AT 350 ppb ON 27 FEB 97

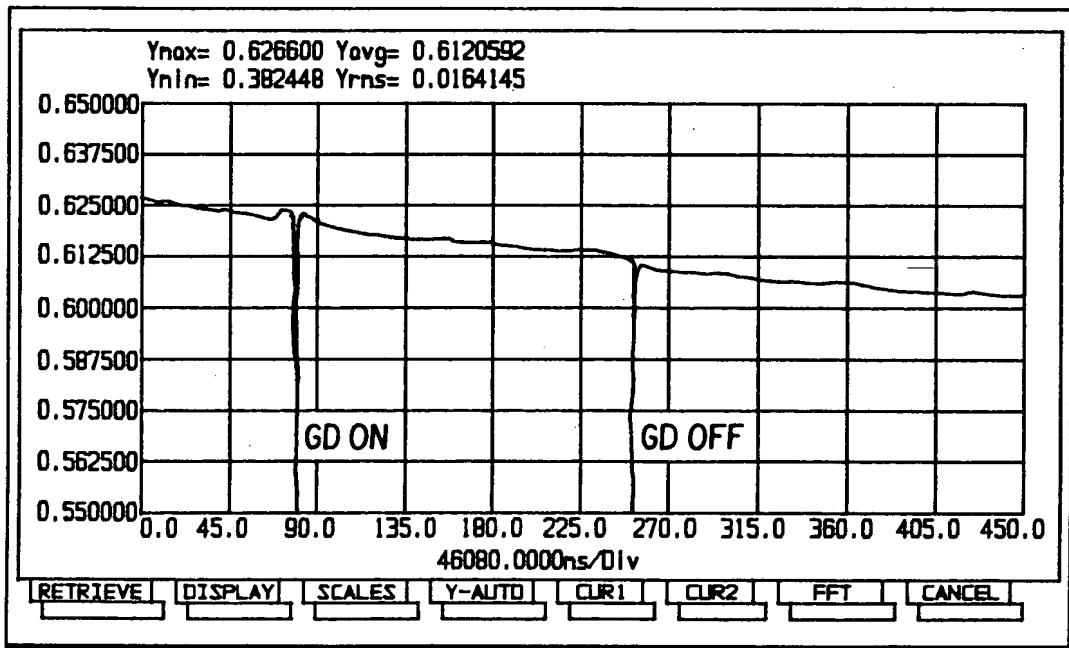


FIG. 9B NULL RESPONSE OF NILE BLUE/PECH FILM OF
FIGHER 5a UPON EXPOSURE TO GD AT 166 ppb

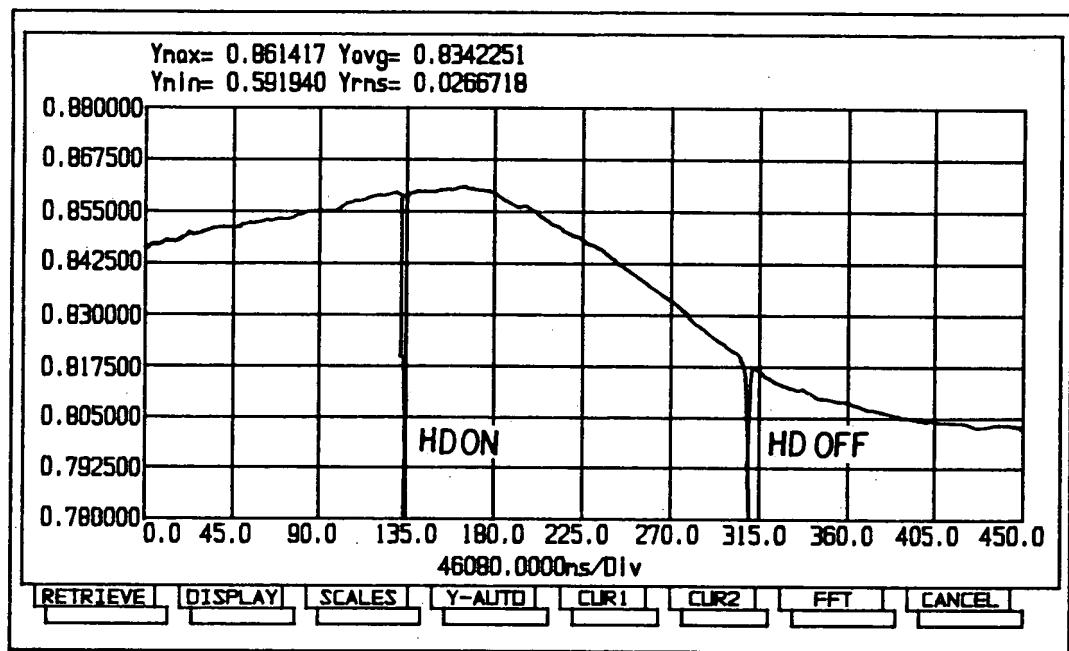


FIG. 9C RESPONSE OF SAME NILE BLUE/PECH FILM, AFTER EXPOSURE TO GO (AT 166 ppb) UPON RE-EXPOSURE TO HD (AT 243 ppb)

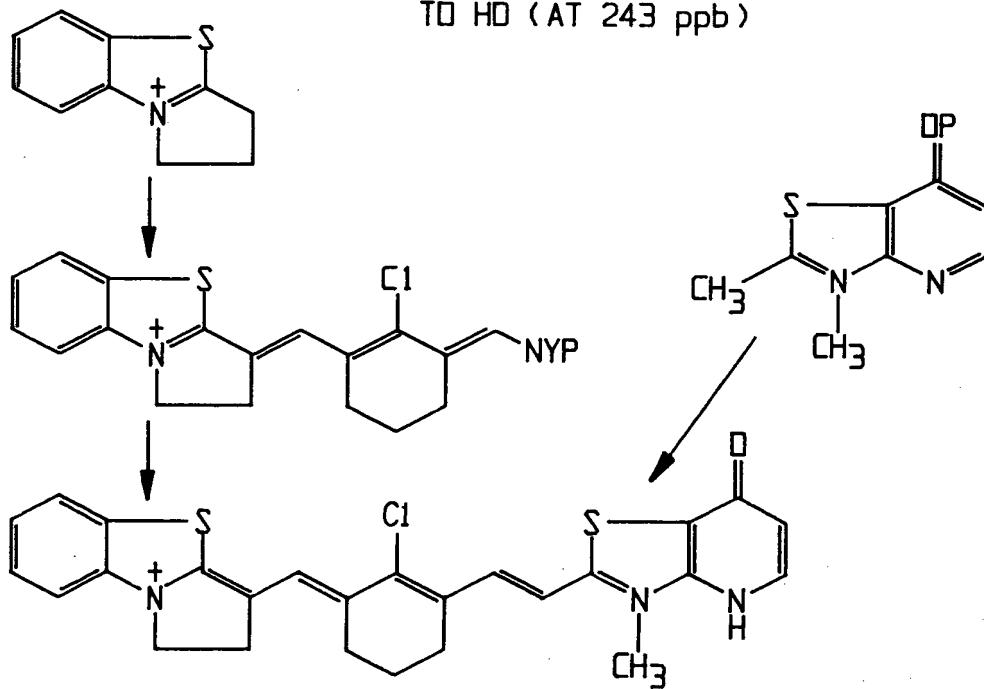


FIG. 10
(SCHEME I) SYNTHESIS OF NEAR-INFRARED EXCITED SOLVATOCHROMIC FLUOROPHORE

